Claims

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- 1. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising the steps of
 - i) contacting a test compound with a KLK6 polypeptide,
 - ii) detect binding of said test compound to said KLK6 polypeptide.
- 2. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising the steps of
 - i) determining the activity of a KLK6 polypeptide at a certain concentration of a test compound or in the absence of said test compound,
 - ii) determining the activity of said polypeptide at a different concentration of said test compound.
- A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising the steps of
 - i) determining the activity of a KLK6 polypeptide at a certain concentration of a test compound,
- 25 ii) determining the activity of a KLK6 polypeptide at the presence of a compound known to be a regulator of a KLK6 polypeptide.
 - 4. The method of any of claims 1 to 3, wherein the step of contacting is in or at the surface of a cell.
 - 5. The method of any of claims 1 to 3, wherein the cell is in vitro.

- 6. The method of any of claims 1 to 3, wherein the step of contacting is in a cell-free system.
- 7. The method of any of claims 1 to 3, wherein the polypeptide is coupled to a detectable label.
- 8. The method of any of claims 1 to 3, wherein the compound is coupled to a detectable label.
- 5 9. The method of any of claims 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.
 - 10. The method of any of claims 1 to 3, wherein the polypeptide is attached to a solid support.
 - 11. The method of any of claims 1 to 3, wherein the compound is attached to a solid support.
- 12. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising the steps of
 - i) contacting a test compound with a KLK6 polynucleotide,
- ii) detect binding of said test compound to said KLK6 polynucleotide.
 - 13. The method of claim 12 wherein the nucleic acid molecule is RNA.
 - 14. The method of claim 12 wherein the contacting step is in or at the surface of a cell.
 - 15. The method of claim 12 wherein the contacting step is in a cell-free system.
 - 16. The method of claim 12 wherein polynucleotide is coupled to a detectable label.
- 20 17. The method of claim 12 wherein the test compound is coupled to a detectable label.
 - 18. A method of diagnosing a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising the steps of
- 25 i) determining the amount of a KLK6 polynucleotide in a sample taken from said mammal,

- ii) determining the amount of KLK6 polynucleotide in healthy and/or diseased mammals.
- 19. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising a therapeutic agent which binds to a KLK6 polypeptide.
- 20. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising a therapeutic agent which regulates the activity of a KLK6 polypeptide.
- A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising a therapeutic agent which regulates the activity of a KLK6 polypeptide, wherein said therapeutic agent is
- i) a small molecule,

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- ii) an RNA molecule,
- iii) an antisense oligonucleotide,
- iv) a polypeptide,
- v) an antibody, or
- 25 vi) a ribozyme.

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22. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising a KLK6 polynucleotide.

- 23. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising a KLK6 polypeptide.
- 24. Use of regulators of a KLK6 for the preparation of a pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal.
- 25. Method for the preparation of a pharmaceutical composition useful for the treatment of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal comprising the steps of
 - i) identifying a regulator of KLK6,

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- ii) determining whether said regulator ameliorates the symptoms of a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases in a mammal; and
- iii) combining of said regulator with an acceptable pharmaceutical carrier.
- Use of a regulator of KLK6 for the regulation of KLK6 activity in a mammal having a disease comprised in a group of diseases consisting of inflammation, muscle-skeleton diseases, hematological diseases, gastrointestinal and liver diseases, neurological disorders, urological disorders, cardiovascular disorders, cancer, metabolic diseases and dermatological diseases.